

REMARKS

This paper is being provided in response to the Office Action mailed December 12, 2007, for the above-referenced application. In this response, Applicants have amended claims 1-6 and added new claims 7-26 to clarify that which Applicants consider to be the presently-claimed invention. Further, Applicants have amended the drawings as explained above. Applicants respectfully submit that the amendments to the claims and the new claims are fully supported by the originally-filed specification and that the amendments to the drawings do not add new subject matter.

The objection to the drawings has been addressed by amended figures submitted herewith, as explained above, in accordance with the guidelines set forth in the Office Action. Accordingly, Applicants respectfully request that the objection be reconsidered and withdrawn.

The objection to claims 2-3 for informalities has been addressed by amendments contained herein in accordance with the guidelines set forth in the Office Action. Accordingly, Applicants respectfully request that the objection be reconsidered and withdrawn.

The rejections of claims 1, 4, 5 and 6 under 35 U.S.C. 112, second paragraph, as being indefinite have been addressed by amendments contained herein in accordance with the guidelines set forth in the Office Action. Applicants have clarified that a search device and/or information searching/providing system provides a search service concerning data provided by a contents providing server capable of providing contents, the data corresponding to information showing a capacity included in an information request command, and wherein information used

therewith is the information showing the capacity of a typical model in a model group, the model group being set according to the capacity. Accordingly, Applicants respectfully request that the rejections be reconsidered and withdrawn.

The rejection of claims 1-3 and 4 under 35 U.S.C. 101 as being directed to non-statutory subject matter has been addressed by amendments contained herein. Applicants have amended the claims to recite that at least one processor executes computer programs, stored on a computer-readable medium (such as a memory), that include executable code to provide recited features, and which is statutory subject matter as described in MPEP 2106.01 ("When functional descriptive material [data structures and computer programs which impart functionality when employed as a computer component] is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized."). Applicants respectfully submits that the amendments are fully supported by the originally-filed specification (see, for example, page 14, line 23 to page 15, line 19 of the originally-filed specification). Accordingly, Applicants respectfully request that the rejection be reconsidered and withdrawn.

The rejections of claims 1-6 under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,983,310 B2 to Rouse (hereinafter "Rouse") is hereby traversed and reconsideration is respectfully requested.

Independent claim 1, as amended herein, recites a search device that provides a search service about data provided by a contents providing server capable of providing contents, the

data corresponding to information showing a capacity included in an information request command. At least one processor is included in the search device that executes computer programs stored on a computer-readable medium, the computer programs including executable code that provides a crawling means for searching an address of said contents by using the information showing the capacity of a typical model in a model group, the model group being set according to the capacity. A search index is also provided that holds the address of the contents obtained by said crawling means in correspondence to an identifier that identifies a terminal unit in the model group at a time of crawling. A searching means is also provided for gobbling down the address of the contents in said search index in correspondence to the identifier included in the information request command from the terminal unit. Claims 2 and 3 depend from independent claim 1.

Independent claim 4, as amended herein, recites a search device that provides a search service about data provided by a contents providing server capable of providing contents, the data corresponding to information showing a capacity included in an information request command. At least one processor is included in the search device that executes computer programs stored on a computer-readable medium, the computer programs including executable code that provides a crawling means for searching an address of said contents by using the information showing the capacity of a typical model in a model group, the model group being set according to the capacity. A search index is also provided that holds the address of the contents obtained by said crawling means in correspondence to an identifier that identifies a terminal unit in the model group at a time of crawling. A searching means is also provided for gobbling down the address of the contents in said search index in correspondence to the identifier included in the

information request command from the terminal unit. A search result generating means is also provided for generating a search result including said predetermined address and the search result.

Independent claim 5, as amended herein, recites an information providing system including a contents providing server capable of providing contents, the contents including data corresponding to information showing a capacity included in an information request command. A search device is included having a crawling means for searching an address of said contents by using the information showing the capacity of a typical model in a model group, the model group being set according to the capacity. A search index holds the address of the contents obtained by the crawling means in correspondence to an identifier that identifies a terminal unit in the model group at a time of crawling. A searching means gobbles down the address of the contents in said search index in correspondence to the identifier included in the information request command from the terminal unit.

Independent claim 6, as amended herein, recites an information searching system including a contents providing server capable of providing contents, the contents including data corresponding to information showing a capacity included in an information request command. A search device is included having a crawling means for searching an address of said contents by using the information showing the capacity of a typical model in a model group, the model group being set according to the capacity. A search index holds the address of the contents obtained by the crawling means in correspondence to an identifier that identifies a terminal unit in the model group at a time of crawling. A searching means gobbles down the address of the contents in said

search index in correspondence to the identifier included in the information request command from the terminal unit. A search result generating means generates a search result including said predetermined address and the search result.

The Rouse reference discloses a system and method for providing search capabilities on a wireless device. Search criteria may include searching messages (e.g., emails, memos, and/or other correspondence and documents) based on various fields, such as sender data subject and other parts of a message. The Office Action cites specifically to col. 3, lines 14-17 and col. 5, lines 35-48, among other citations, in rejecting Applicants' independent claims.

Applicants' independent claims recite at least the features of searching using data provided by a contents providing server that corresponds to information showing a capacity included in an information request command from a terminal unit and specifically including use of a crawling means for searching an address of said contents by using the information showing the capacity, among other features. For purposes of non-limiting example and illustration only, Applicants refer to Figure 1 and the corresponding description in the originally-filed specification. An information request command is sent from a cellular phone terminal unit to an HTTP server that analyzes the request. The information request command includes information showing a capacity of the cellular phone terminal unit. For example, the contents may include a tune or an image (see, for example, storage portions 111, 211 in Figure 1). A crawling means searches an address of the contents (tune, image, etc.) using the information showing the capacity of a typical model in a model group the model group being set according to the capacity. As shown, for example in Figure 1, tune AAA may be stored in a data storage region

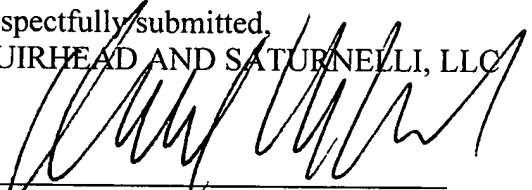
as 64 tones, 16 tones and 4 tones. The crawling operation is executed using the capacity information that may identify a typical model of cellular phone in a model group of cellular phones set based on the capacity information. A search index holds the address of the contents (e.g., tune) obtained by the crawling means in correspondence to an identifier of a cellular phone in the model group at a time of crawling. A searching means gobbles down the address of the contents in the search index that corresponds to the identifier included in the information request command from the cellular phone terminal unit, for example in the expansion header of the HTTP request.

Again, for purposes of non-limiting example and illustration only, Applicants refer to the operation example described on pages 25-26 of the originally-filed specification. The example describes the scenario in which a cellular phone terminal unit sends an HTTP request for a tune AAA. Included in the HTTP request expansion header is the identifier of the cellular phone unit (V-SH53) and the capacity (64 tones) of the cellular phone terminal unit. The search service identifies the model group of cellular phones using the capacity information and, using the identifier included in the information, identifies the model of cellular phone. The search service then facilitates the providing of the tune data (tune AAA stored as 64 tones, see, for example, Figure 1), corresponding to the capacity information to the cellular phone terminal unit in respond to the request received therefrom. Applicants have found that with the recited system it is possible to reduce the number of operations by the user until the user downloads the available contents and thus it is possible to advantageously reduce the operation load of the user, reduce wasteful traffic, reduce communication costs, and improve search results. (See, for example pages 29-30 of the originally-filed specification.)

In contrast, Applicants submit that Rouse does not teach or fairly suggest at least the above-noted features as recited by Applicants. With respect to a crawling means, the Office Action cites to col. 13, lines 14-17 of Rouse in which is stated: "Wireless device access enables users to have instant access to critical information wherever the user may happen to be." However, Applicants submits that Rouse is silent as to the use of information showing capacity information and the providing of data from a server corresponding to the information, as is discussed above and recited by Applicants. Further, the Office Action cites to col. 5, lines 35-48 of Rouse concerning searching indices and mechanisms of Rouse in which is referenced databases storing information related to electronic mail, directories, calendar, scheduling applications and/or other applications. However, Applicants submit that Rouse does not teach or fairly suggest the searching the contents identified by a crawling means using the capacity information and identifier, included in an information request command from a terminal unit, as is discussed above and recited by Applicants. Instead, Rouse discloses the searching of messages on a wireless device, such as emails, memos and other documents, based on various fields such as sender, date, subject and other criteria. Accordingly, in view of the above, Applicants respectfully request that the rejection of Applicants' present claims over Rouse be reconsidered and withdrawn.

Further, Applicants respectfully submit that the new claims are allowable over the cited prior art in accordance with the remarks set forth above.

Based on the above, Applicants respectfully request that the Examiner reconsider and withdraw all outstanding rejections and objections. Favorable consideration and allowance are earnestly solicited. Should there be any questions after reviewing this paper, the Examiner is invited to contact the undersigned at 508-898-8603.

Respectfully submitted,
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